

City of Williamsburg

Facility name: Public Works and Utilities Department

Period ending: Monday, December 31, 2007

Person resp	Prepared by	Reviewed by	Approved by
EMS 4/22/2003	EMS 4/22/2003	EMS 11/20/2007	DGC 3/21/2006

4. 3. 11

Revision no. 7

Evaluate environmental aspects and impacts

Date of issue: 11/15/2005 Effective until date: 11/15/2008

Warning! The information in this document may be out of date and should be reviewed.

Document location:

Distribution list:

Current revision no.: 7

Revision schedule

Rev. no.	Date	Description
1	10/12/2004	added paper recycling as an aspect
2	3/23/2005	added fuel aspect
3	4/5/2005	added sanitary sewer over flows
4	5/24/2005	re-evalute non-significant aspects
5	11/15/2005	added leaf storage
6	3/7/2006	added oil filter and used oil
7	3/21/2006	diesel fuel

Worksheet index

A. Identify environmental aspects and impacts

B. Staff time

A. EVALUATE ENVIRONMENTAL ASPECTS AND IMPACTS

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Evaluate environmental aspects and impacts

Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C/I	M	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A1 N	Activity/Product/Service:Car Wash Aspect: Hazardous Waste Normal • Impact:Soil, Storm/Ground Water Contamination	2	2	1	1	1.50	2	1	2	1	3	1.80	NIL	N	M	C	N/A	
A2 N	Activity/Product/Service:Car Wash Aspect: Detergent Normal • Impact:Soil, Storm/Ground Water Contamination	1	1	1	1	1.00	2	1	2	1	3	1.80	NIL	N	M	C	N/A	
A3 N	Activity/Product/Service:Storing/Dispensing Snow Removal Material Aspect: Salt Normal • Impact:Soil, Storm/Ground Water	2	2	1	1	1.50	3	3	2	2	2	2.40	NIL	N	M	L	4	
A4 N	Activity/Product/Service:Storing/Dispensing Snow Removal Material Aspect: Sand Normal • Impact:Erosion/ Sediment Control	2	2	2	2	2.00	1	2	2	2	2	1.80	NIL	N	M		N/A	

Sub-total cost to change impacts: \$NIL

Mandatory column (M): I - industry requirement, e.g. industry code of practice C - company requirement, e.g. corporate policy L - legal requirement, e.g. regulation O - ISO 14000

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Evaluate environmental aspects and impacts

Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A5 N	Activity/Product/Service: Storing/Dispensing Landscape Chemicals													N	L		N/A	
	Aspect: Herbicides													N				
	Normal													N				
	• Impact Air Pollution	1	1	1	1	1.00	4	4	2	1	2	2.60	NIL	N				
	• Impact: Soil, Water Contamination	3	3	2	3	2.75	4	4	2	1	2	2.60	NIL	N				
A6 N	Activity/Product/Service: Storing/Dispensing Landscape Chemicals													N	L		N/A	
	Aspect: Fertilizer													N				
	Normal													N				
	• Impact: Air	2	1	1	1	1.25	1	5	1	1	2	2.00	NIL	N				
	• Impact: Soil, Water Contamination	1	1	1	1	1.00	1	5	1	1	2	2.00	NIL	N				
A7 N	Activity/Product/Service: Storing/Dispensing Landscape Chemicals													N	L		N/A	
	Aspect: Pesticides													N				
	Normal													N				
	• Impact: Soil, Water Contamination	2	2	1	3	2.00	4	4	2	1	2	2.60	NIL	N				
	• Impact: Air	2	2	1	3	2.00	4	3	2	1	3	2.60	NIL	N				
A8 N	Activity/Product/Service: Daily Operations													N	M		N/A	
	Aspect: Aluminum													N				
	Normal													N				
	• Impact: Soil Pollution; ie. Landfilling	2	1	3	3	2.25	1	2	2	1	3	1.80	NIL	N				
Sub-total cost to change impacts:													<u>\$NIL</u>					

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Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A9 N	Activity/Product/Service:Activity/Produ t/Service:Daily Operations Aspect: Cardboard Normal • Impact:Soil Pollution; ie. Landfilling	2	1	2	2	1.75	1	2	2	1	3	1.80	NIL	N	M		N/A	
A10 N	Activity/Product/Service:Daily Operations Aspect: Scrapmetal Normal • Impact:Soil, Storm/Ground Water	3	2	2	3	2.50	1	3	2	2	2	2.00	NIL	N	M		N/A	
A11 N	Activity/Product/Service:Daily Operations Aspect: Lead Normal • Impact:Soil, Storm/Ground Water	2	2	2	3	2.25	3	2	2	2	2	2.20	NIL	N	M		N/A	
A12 N	Activity/Product/Service:Changing Tires Aspect: Used Tires Normal • Impact:Soil, Storm/Ground Water	2	2	3	3	2.50	4	2	2	2	2	2.40	NIL	N	H		N/A	

Sub-total cost to change impacts: \$NIL

Mandatory column (M): I - industry requirement, e.g. industry code of practice C - company requirement, e.g. corporate policy L - legal requirement, e.g. regulation O - ISO 14000

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Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A13 N	Activity/Product/Service: Replacing Vehicle Batteries Aspect: Solid Waste Normal • Impact: Soil, Storm/Ground Water	2	2	3	3	2.50	3	2	2	3	2	2.40	NIL	N	H		N/A	
A14 N	Activity/Product/Service: Replacing Vehicle Batteries Aspect: Battery Acid Normal • Impact: Soil, Water, Air	2	2	1	2	1.75	3	2	2	2	2	2.20	NIL	N	L		N/A	
A15 N	Activity/Product/Service: Daily Operations Aspect: Plastics Normal • Impact: Soil Water	2	1	2	2	1.75	1	2	2	2	2	1.80	NIL	N	M		N/A	
A16 N	Activity/Product/Service: Daily Operation Aspect: Paper Products Normal • Impact: Waste Management	2	2	2	2	2.00	2	2	2	2	2	2.00	NIL	N	M		N/A	

Sub-total cost to change impacts: \$NIL

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Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A17 N	Fueling Vehicles or approved containers Aspect: Fuel Normal • Ground water, soil,air	3	3	1	4	2.75	4	2	2	2	3	2.60	NIL	N	H	L	N/A	
A18 A	Activity/Product/Service Sanitary Sewer overflows Aspect: Waste Water Abnormal • Impact: water, soil	3	3	4	2	3.00	4	2	4	4	4	3.60	NIL	Y		L	2	
A19 A	Activity/Product/Service: Sanitary Sewer overflows Aspect: Solid Waste Abnormal • Impact: water, soil	3	3	4	2	3.00	4	2	4	4	4	3.60	NIL	Y		L	3	
A20 N	Activity/Product/Service: Leaf Storage Aspect: Leaves Normal • Impact water soil, air	1	1	3	1	1.50	1	1	1	1	2	1.20	NIL	N			N/A	

Sub-total cost to change impacts: \$NIL

Mandatory column (M): I - industry requirement, e.g. industry code of practice C - company requirement, e.g. corporate policy L - legal requirement, e.g. regulation O - ISO 14000

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Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A21 N	Activity Product Service: changing fuel filters Aspect: Fuel Filters Normal • Impact Soil Water Air	1	1	2	1	1.25	1	4	1	2	1	1.80	NIL	N	L		N/A	
A22 N	Activity/Product/Service Changing Oil Aspect: Used Oil Normal • Impact water	1	1	3	1	1.50	1	1	1	1	2	1.20	NIL	N	L	L	N/A	
A23 N	Activity/Product/Service; Changing Oil Aspect: Used Oil Filters Normal • Impact Water; Soil	1	1	3	1	1.50	1	1	1	1	2	1.20	NIL	N	L	L	N/A	
A24 N	Activity/Product/Service: Asphalt Preparation(tools, Truck beds) Aspect: Diesel fuel Normal • Impact:air, water	3	2	4	3	3.00	2	4	2	4	4	3.20	NIL	Y	H	No	1	

Sub-total cost to change impacts: \$NIL

Mandatory column (M): I - industry requirement, e.g. industry code of practice C - company requirement, e.g. corporate policy L - legal requirement, e.g. regulation O - ISO 14000

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Asp. Id.	Activity/Product/Service Aspect Condition Reference • Impact * 1 (low) - 5 (high)	Environmental significance of impact(s)					Business significance of impact(s)							S	C / I	M*	P	Lk.
		Scale of impact	Severity of impact	Prob. of occur.	Duration of impact	Avg. score (out of 5)	Pot'l reg. & legal expos.	Ease of changing impact	Effect on public image	Minimal change on process	Concerns of interst'd parties	Avg. score (out of 5)	Cost of changing the impact (\$)					
	Weighting (%)	25	25	25	25		20	20	20	20	20							
A25 A, E	Activity/Product/Service: Sewer line repair (disposal, storage) Aspect: Contaminated soil Abnormal and emergency Reference: WIP 11-1 • Impact : soil, water, air	2	3	2	2	2.25	4	1	3	2	4	2.80	NIL	N	M	L	5	
A26 N	Activity/Product/Service: Street Sweeping Aspect : Street Sweepings Normal • Impact: soil, water	1	2	4	2	2.25	2	4	4	1	3	2.80	NIL	N	M	L	6	
A27 N	Activity/Product/Service: Leaf Collection (disposal, storage) Aspect: Leaves Normal • Impact; water, soil	1	1	3	3	2.00	1	2	3	2	3	2.20	NIL	N	L	L	7	
A28 N	Activity/Product/Service: Aerosol Can Disposal Aspect: Solid Waste Normal • Impact • Impact: Soil, Air, Water	1	2	3	2	2.00	1	2	1	1	3	1.60	NIL NIL	N	M	C	8	

Total cost to change impacts: \$NIL

Mandatory column (M): I - industry requirement, e.g. industry code of practice C - company requirement, e.g. corporate policy L - legal requirement, e.g. regulation O - ISO 14000

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B. STAFF TIME